

ODS 638

OBSTRUCTION DATA SHEET

ODS 638
AKRON - CANTON REGIONAL AIRPORT
AKRON, OHIO

DIGITIZED FROM

OC 638
SURVEYED SEPTEMBER 1988
10TH EDITION



PREPARED AND DISTRIBUTED BY
THE NATIONAL OCEAN SERVICE
U.S. DEPARTMENT OF COMMERCE
FOR THE FEDERAL AVIATION ADMINISTRATION

C 55.411/3:

READER
FICHE

best copy available

OBSTRUCTION DATA SHEET

The Obstruction Data Sheet (ODS) provides digital obstruction and runway data for use in aircraft arrival and departure planning. This information has been obtained using field survey and photogrammetric methods by the Photogrammetry Branch of the National Ocean Service in accordance with Federal Aviation Regulations Part 77 (FAR-77), "Objects Affecting Navigable Airspace" and FAA Nr. 405, "Specifications - Airport Obstruction Chart and Related Products."

The ODS is a derivative of the Airport Obstruction Chart (OC). The source OC is indicated on the ODS cover. All objects, both obstructing and nonobstructing, that carry an elevation on the OC are listed in the ODS. The ODS (and OC) depict a representation of objects that existed at the time of the OC field survey.

ODS information is arranged as follows:

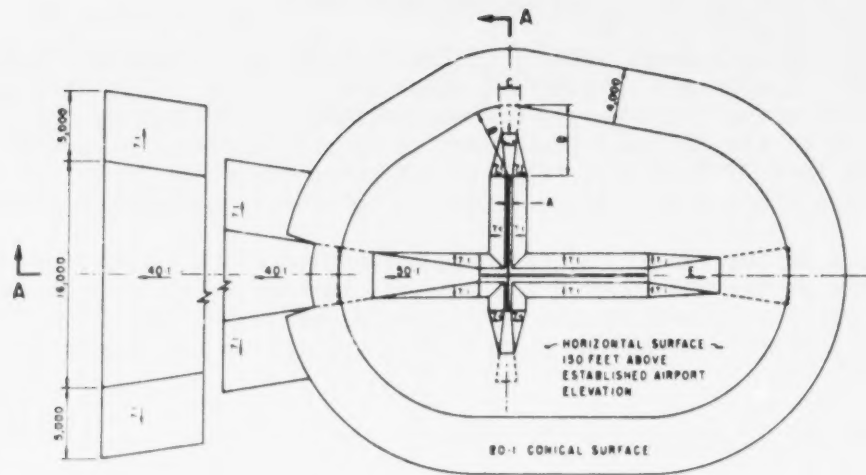
1. Objects located in FAR-77 approach (including supplemental approaches if present) or primary areas are listed with the associated runway (reference runway). For example, all objects in the Runway 9R approach or primary are listed with Runway 9R. Distances to these objects are computed from both the physical end and threshold of Runway 9R. Objects in the Runway 27L approach or primary are listed with Runway 27L. (Objects in the common 9R/27L primary area are listed with both runways.)
2. All objects not included in "1" above are listed with the Airport Reference Point (ARP).
3. Runway configuration and runway lengths, widths, and elevations are presented on the ODS last page.

The FAR-77 imaginary approach surfaces for which the obstruction surveys were performed are coded in the ODS as follows (see footnote 2 on page 3):

A(V) Utility runway - visual approach only
 A(NP) Utility runway - nonprecision instrument approach
 B(V) Nonutility runway - visual approach only
 C Nonutility runway - nonprecision instrument approach with
 visibility minimums greater than 3/4 mile
 D Nonutility runway - nonprecision instrument approach with
 visibility minimums as low as 3/4 mile
 PIR Precision instrument runway
 SUPLC ... Supplemental C underlying a B(V)

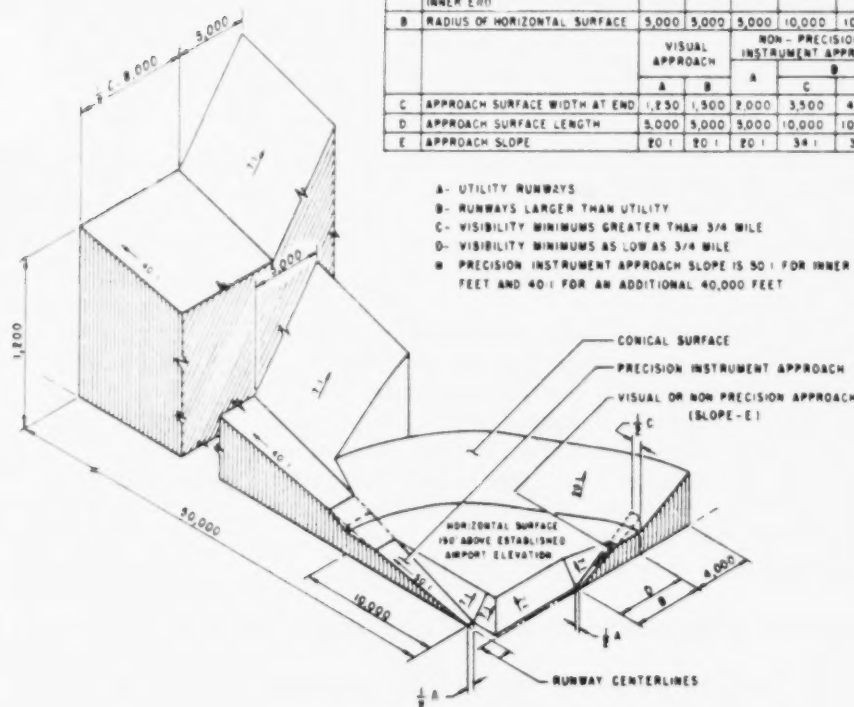
FAR-77 imaginary surface dimensions are defined on page 2 of this report.

Primary surface width is determined by the widest approach at the two approach/primary interfaces for that runway.



DIM	ITEM	DIMENSIONAL STANDARDS (FEET)					
		VISUAL RUNWAY		NON-PRECISION INSTRUMENT RUNWAY		PRECISION INSTRUMENT RUNWAY	
		A	B	A	C	D	
A	WIDTH OF PRIMARY SURFACE AND APPROACH SURFACE WIDTH AT INNER END	250	500	300	500	1,000	1,000
B	RADIUS OF HORIZONTAL SURFACE	5,000	5,000	5,000	10,000	10,000	10,000
		VISUAL APPROACH		NON-PRECISION INSTRUMENT APPROACH		PRECISION INSTRUMENT APPROACH	
		A	B	A	C	D	
C	APPROACH SURFACE WIDTH AT END	1,250	1,500	2,000	3,500	4,000	16,000
D	APPROACH SURFACE LENGTH	5,000	5,000	5,000	10,000	10,000	#
E	APPROACH SLOPE	20:1	20:1	20:1	34:1	34:1	#

- A- UTILITY RUNWAYS
 B- RUNWAYS LARGER THAN UTILITY
 C- VISIBILITY MINIMUMS GREATER THAN 3/4 MILE
 D- VISIBILITY MINIMUMS AS LOW AS 3/4 MILE
 # PRECISION INSTRUMENT APPROACH SLOPE IS 30:1 FOR INNER 10,000 FEET AND 40:1 FOR AN ADDITIONAL 40,000 FEET



ISOMETRIC VIEW OF SECTION A-A

FAR-77 CIVIL AIRPORT IMAGINARY SURFACES

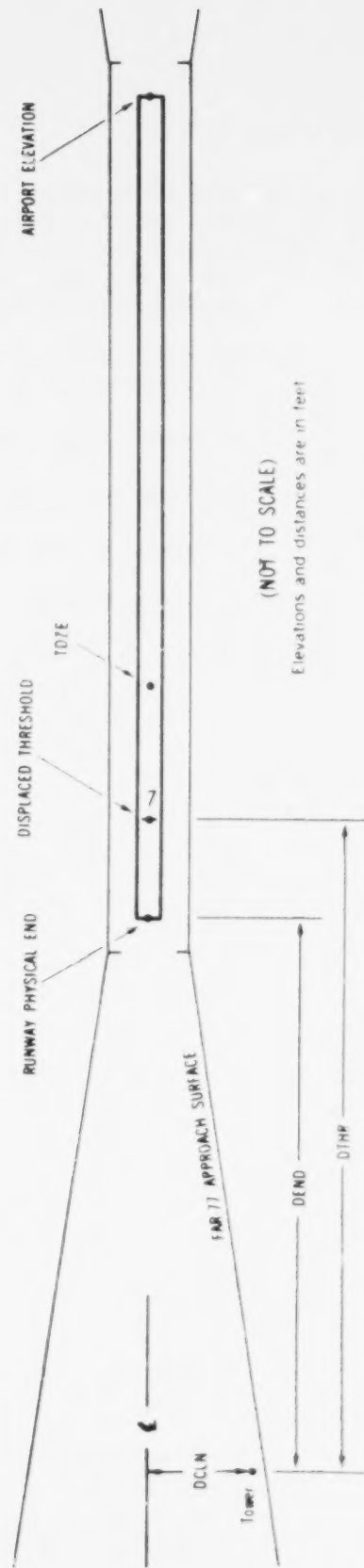
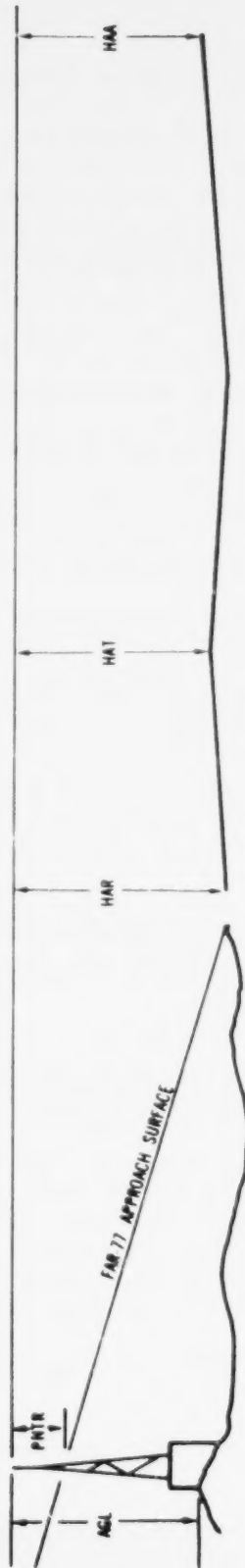
ANNOTATION OF ODS DATA FORMAT

OC XXXX

AIRPORT ELEVATION XXXX

x¹ x² XXXX/XXXX³ XXXXX.XXX⁴ XXXXX.XXX⁴ XXXXX⁵ XXXX/XXXX⁶ XXXXX.XXX⁷ XXXXX.XXX⁷
 OBJECT LAT LONG A⁸ ELEV⁹ AGL¹⁰ HAR¹¹ HAT¹¹ HAA¹¹ DEND¹² DTHR¹² DCLN¹² PNTR¹³

XXXXXXXXXXXX
 XXXXX.XXX XXXXXXXX.XXX XX XXXX XXXX XXX XXX XXX XXXX XXXX XXXX XXXX
 XXXXX.XXX XXXXXXXX.XXX XX XXXX XXXX XXX XXX XXX XXXX XXXX XXXX XXXX



(NOT TO SCALE)

Elevations and distances are in feet

EXPLANATION OF FOOTNOTES

- ¹ Data block identifier. If a runway number is entered (reference runway), this data block will contain data pertinent to the reference runway and to objects in the FAR-77 approach and primary area of the reference runway. If ARP is entered, this data block will contain the ARP position and data relative to all objects not in an FAR-77 approach or primary area.
- ² For the reference runway, the lowest FAR-77 approach surface for which an obstruction survey was performed. (More than one surface may be surveyed.)
- ³ Reference runway approach physical end elevation/touchdown zone elevation
- ⁴ Latitude and longitude of reference runway approach physical end
- ⁵ Reference runway geodetic azimuth reckoned clockwise from south
- ⁶ Reference runway displaced threshold elevation/touchdown zone elevation
- ⁷ Latitude and longitude of reference runway displaced threshold
- ⁸ Accuracy Code:

Horizontal	Vertical
1 = 20	A = 2
2 = 40	B = 5
	C = 20
- ⁹ Mean Sea Level (MSL) elevation at top of object. This value includes 15 feet added to noninterstate roads, 17 feet added to interstate roads, and 23 feet added to railroad tracks.
- ¹⁰ Height above ground level (AGL). AGLs are provided only for those objects appearing on the OC that are equal to, or greater than, 200 feet AGL. AGL accuracy is ± 10 feet.
- ¹¹

HAA - Height above airport

HAR - Height above reference runway approach physical end

HAT - Height above reference runway touchdown zone elevation
- ¹²

DEND - Distance along reference runway centerline from point perpendicular to object to reference runway approach physical end

DTHR - Distance along reference runway centerline from point perpendicular to object to reference runway threshold

DCLN - Distance left (L) or right (R) of reference runway centerline as observed facing forward in a landing aircraft.

A negative value for DEND or DTHR indicates object is in primary area on roll-out side of zero distance point.
- ¹³ PNTR - Penetration of indicated FAR-77 approach or primary surface (see footnote 2).

OC0638

AIRPORT ELEVATION 1228

1 PIR 1206/1214 405437.484N 0812628.760W 1822755

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
POLE	405540.30	0812618.89	1A	1218		12	4	-10	-6384		483R	4
OL ON GLIDE SLOPE	405530.93	0812630.93	1A	1255		49	41	27	-5397		399L	40
OL ON GLIDE SLOPE	405446.67	0812632.53	1A	1248		42	34	20	-917		330L	44
GROUND	405435.58	0812628.90	1A	1207		1	-7	-21	193		3L	1
GROUND	405435.26	0812622.37	1A	1208		2	-6	-20	204		500R	2
GROUND	405432.15	0812623.67	1A	1222		16	8	-6	523		414R	10
FENCE	405427.22	0812624.39	1A	1224		18	10	-4	1024		380R	2
OL ON LOCALIZER	405426.86	0812629.37	1A	1228		22	14	0	1077		0L	4
POLE	405425.27	0812634.35	1A	1231		25	17	3	1253		375L	4
APPROACH LIGHT	405424.87	0812629.34	1A	1228		22	14	0	1277		11R	0
ROAD (N)	405420.63	0812629.67	1A	1221		15	7	-7	1707		3R	-15
TREE	405402.46	0812623.94	1A	1284		78	70	56	3526		522R	11
TREE	405401.42	0812622.94	1A	1290		84	76	62	3628		604R	15
TREE	405401.06	0812620.76	1A	1285		79	71	57	3656		773R	10
TREE	405358.09	0812624.69	1A	1285		79	71	57	3970		484R	4
TREE	405315.58	0812650.41	1A	1325		119	111	97	8353		1305L	-44

OC0638

AIRPORT ELEVATION 1228

19 PIR 1214/1218 405540.631N 0812625.176W 0022757

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	405435.26	0812622.37	1A	1208		-6	-10	-20	-6601		500L	2
GROUND	405435.58	0812628.90	1A	1207		-7	-11	-21	-6590		3R	1
OL ON GLIDE SLOPE	405446.67	0812632.53	1A	1248		34	30	20	-5480		330R	44
OL ON GLIDE SLOPE	405530.93	0812630.93	1A	1255		41	37	27	-1000		399R	40
POLE	405540.30	0812618.89	1A	1218		4	0	-10	-12		483L	4
POLE	405543.81	0812618.73	1A	1216		2	-2	-12	342		481L	-1
TREE	405546.04	0812618.67	1A	1235		21	17	7	568		476L	14
TREE	405549.30	0812632.64	1A	1251		37	33	23	852		610R	24
TREE	405553.91	0812616.08	1A	1253		39	35	25	1373		640L	16
TREE	405602.82	0812617.23	1A	1267		53	49	39	2270		513L	12
TREE	405607.74	0812632.72	1A	1289		75	71	61	2716		696R	25
TREE	405607.40	0812621.27	1A	1263		49	45	35	2720		183L	-1
TREE	405611.18	0812625.09	1A	1277		63	59	49	3089		126R	5
TREE	405613.11	0812629.58	1A	1274		60	56	46	3270		479R	-1
TRANSMISSION TOWER	405613.19	0812621.56	1A	1274		60	56	46	3304		136L	-2
TRANSMISSION TOWER	405614.43	0812628.99	1A	1287		73	69	59	3405		440R	9
TREE	405614.58	0812616.54	1A	1293		79	75	65	3461		514L	14

5 C 1190/1202 405426.798N 0812714.060W 2272734

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
OL ON GLIDE SLOPE	405513.45	0812614.73	1A	1263		73	61	35	-6548		399L	40
TRANSFORMER	405507.30	0812608.22	1A	1223		33	21	-5	-6496		397R	1
OL ON LOCALIZER	405424.49	0812717.41	1A	1191		1	-11	-37	348		1L	-3

OC0638

AIRPORT ELEVATION 1228

23 PIR 1228/1228 405517.547N 08126 1.142W 0472822

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
TRANSFORMER	405507.30	0812608.22	1A	1223		-5	-5	-5	-1102		397L	1
OL ON GLIDE SLOPE	405513.45	0812614.73	1A	1263		35	35	35	-1049		399R	40
TREE	405524.76	0812555.17	1A	1242		14	14	14	831		228R	1
TREE	405528.99	0812550.97	1A	1257		29	29	29	1358		325R	6
TREE	405530.26	0812552.15	1A	1263		35	35	35	1378		482R	11
TREE	405538.22	0812546.32	1A	1282		54	54	54	2252		773R	13
TREE	405528.96	0812534.94	1A	1264		36	36	36	2263		509L	-5
POLE	405536.46	0812537.30	1A	1268		40	40	40	2643		174R	-9
TREE	405530.25	0812528.19	1A	1290		62	62	62	2733		762L	11
TREE	405534.10	0812531.41	1A	1274		46	46	46	2815		308L	-6

14 C 1226/1226 405515.495N 0812659.860W 3172810

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	405517.02	0812701.71	1A	1228		2	2	0	210		0L	2
BUSH	405518.92	0812700.98	1A	1235		9	9	7	314		171L	6
GROUND	405518.36	0812703.33	1A	1231		5	5	3	394		0L	-1
GROUND	405516.79	0812705.59	1A	1232		6	6	4	394		236R	0
TREE	405523.00	0812704.87	1A	1247		21	21	19	820		230L	3
TREE	405533.20	0812712.34	1A	1287		61	61	59	1968		505L	9

32 C 1207/1207 405434.718N 0812610.560W 1372842

OBJECT	LAT	LONG	A	ELEV	AGL	HAR	HAT	HAA	DEND	DTHR	DCLN	PNTR
GROUND	405517.02	0812701.71	1A	1228		21	21	0	-5810		0R	2
TREE	405424.30	0812603.34	1A	1232		25	25	4	1152		304L	-3

OC0638

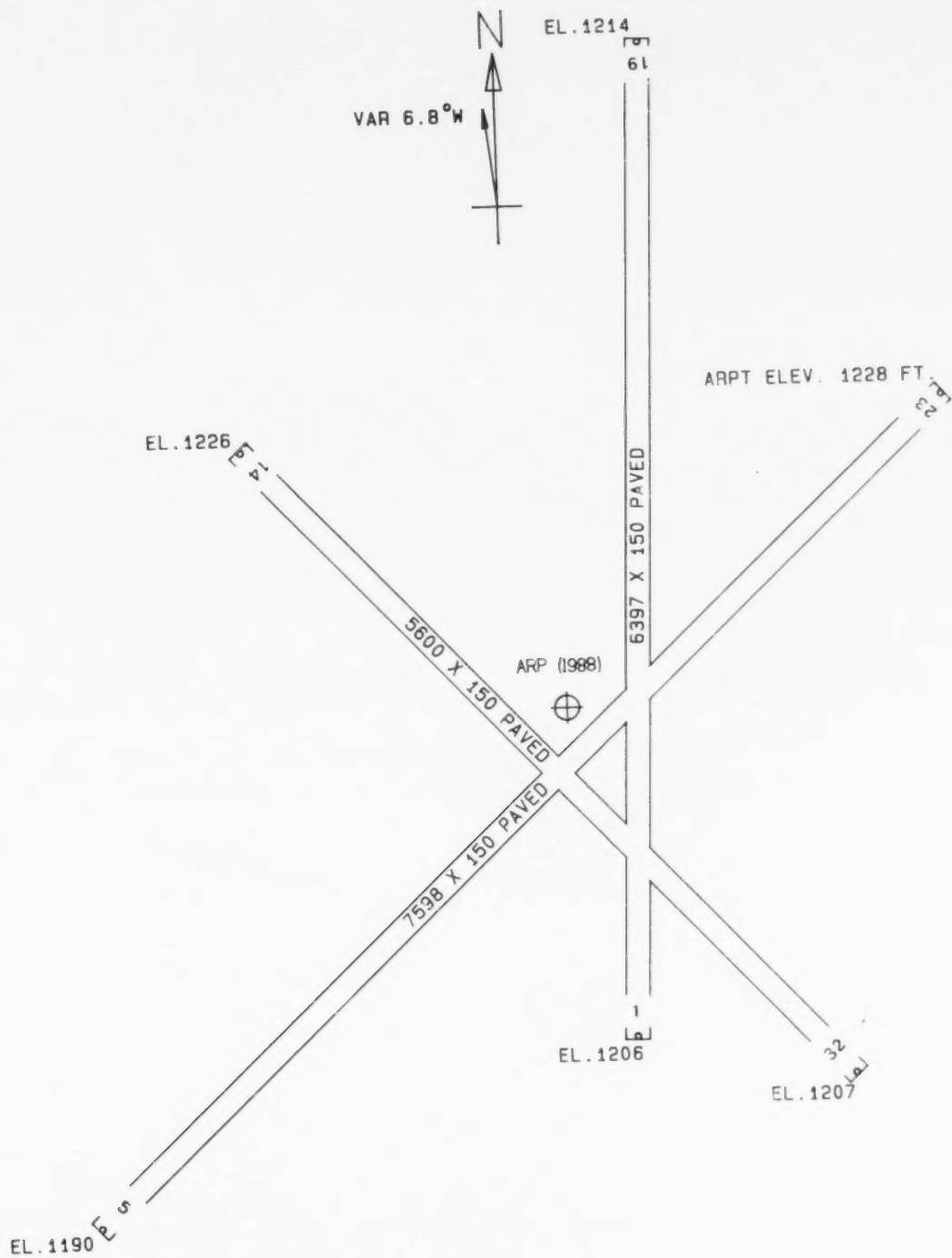
AIRPORT ELEVATION 1228

ARP 405458.524N 0812633.447W

OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE
OL ON ANEMOMETER	405501.31	0812635.67	1A	1231		3	335 36	330
OL ON WINDSOCK	405506.29	0812636.39	1A	1235		7	350 45	818
ANT & APT BN ON OL CTL TR	405453.89	0812612.76	1A	1324		96	113 15	1656
LIGHT ON HANGAR	405500.48	0812608.86	1A	1263		35	90 49	1898
TREE	405517.55	0812635.03	1A	1272		44	3 11	1929
TREE	405517.72	0812643.54	1A	1305		77	345 3	2092
ROD ON OL RADOME	405500.35	0812602.42	1A	1321		93	92 21	2390
TREE	405522.44	0812636.32	1A	1280		52	1 35	2431
TREE	405435.81	0812646.40	1A	1239		11	210 12	2505
ELECTRICAL BOX	405435.64	0812618.77	1A	1217		-11	160 51	2576
TREE	405518.94	0812653.94	1A	1291		63	329 31	2597
OL ON HANGAR	405507.80	0812559.03	1A	1268		40	77 14	2804
ROD ON OL RTR TOWER	405443.43	0812600.24	1A	1282		54	127 44	2973
TREE	405520.94	0812607.43	1A	1238		10	48 10	3022
TREE	405525.85	0812613.99	1A	1260		32	35 10	3143
OL HANGAR	405437.37	0812601.46	1A	1231		3	137 53	3258
TREE	405522.55	0812702.38	1A	1250		22	324 23	3294
ROD ON OL ASR	405532.57	0812642.89	1A	1322		94	354 55	3521
TREE	405531.48	0812617.59	1A	1261		33	26 51	3550
TREE	405424.11	0812618.91	1A	1267		39	169 2	3658
TREE	405426.00	0812701.91	1A	1265		37	220 23	3951
TREE	405426.08	0812703.39	1A	1248		20	221 48	4008
TREE	405529.41	0812708.01	1A	1282		54	326 29	4100
TREE	405423.86	0812604.89	1A	1243		15	154 48	4137
POLE	405538.15	0812617.82	1A	1217		-11	23 27	4186
TREE	405432.87	0812717.07	1A	1201		-27	239 1	4238
TREE	405539.67	0812616.21	1A	1236		8	24 26	4369
TREE	405545.46	0812634.60	1A	1264		36	5 44	4751
TREE	405545.97	0812615.58	1A	1263		35	22 45	4993
TREE	405409.37	0812618.41	1A	1262		34	173 44	5107
TREE	405536.84	0812549.47	1A	1278		50	47 50	5142
TREE	405523.29	0812532.19	1A	1313		85	68 44	5329
TREE	405551.57	0812634.43	1A	1269		41	6 0	5369

AIRPORT ELEVATION 1228

ARP	405458.524N	0812633.447W										
OBJECT	LAT	LONG	A	ELEV	AGL	HAA	MAG BEARING	DISTANCE				
TREE	405525.21	0812532.37	1A	1297		69	66 51	5411				
TREE	405526.09	0812532.89	1A	1286		58	65 49	5422				
TREE	405405.85	0812617.79	1A	1282		54	174 6	5464				
OL ON TANK	405450.28	0812503.66	1B	1321		93	103 42	6944				
TREE	405608.42	0812637.99	1A	1309		81	3 59	7082				



TOUCHDOWN ZONE
RUNWAY ELEVATION

1	1214
19	1218
5	1202
23	1228
14	1226
32	1207

AKRON - CANTON REGIONAL AIRPORT
AKRON, OHIO
(NOT TO SCALE)